

# TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

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February 12, 2007

TO: Internal File

THRU: Pamela Grubaugh-Littig, Permit Supervisor *ggl*

FROM: Priscilla W. Burton, Environmental Scientist III/Soils, Team Lead *PWB by an*

RE: Topsoil Information, Degasification Wells G-11 through G-14, Canyon Fuel Company, LLC, Dugout Canyon Mine, C/007/0039, Task ID #2721

## SUMMARY:

Attachment 2-1 of the Degas Well Volume of the MRP contains baseline survey information gathered from degasification well sites G-2 through G-13 (Site G-1 was not developed.). This information, received on December 21, 2006, details the baseline information for well site G-11 through G-14. The soils were sampled in the fall of 2006 and analyzed by Inter-Mountain Laboratories, Inc. (Sheridan). As with previous degas wells, the Permittee sampled the topsoil at sites G-11 through G-14 at the time of disturbance, to collect baseline soil chemistry information to be included in Attachment 2-1. The following parameters were sampled during soil salvage: texture (particle size analysis), pH, Electrical Conductivity, Sodium Adsorption Ratio, percent  $\text{CaCO}_3$ , plant available Nitrogen, Potassium and Phosphorus (Section 243). The available information is acceptable for inclusion in Attachment 2-1.

In addition to the topsoil information, a refuse sample was included in the group of samples. The refuse pH was near neutral, 7.5, but the acid forming potential based upon Total Sulfur was minus 2.34 Tons/1000. Ordinarily, when the total sulfur acid base accounting is negative, the sample is re-analyzed for the acid forming potential based upon pyritic sulfur. The Permittee has been notified to ask the lab to resample the refuse for the pyritic form of sulfur and re-calculate the totals based upon pyritic sulfur. .

There is no change to the technical analysis for the permit as a result of this information. The available information is acceptable for inclusion in Attachment 2-1.

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**TECHNICAL MEMO**

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**RECOMMENDATIONS:**

Adequate baseline information has been received for site G-11 through G-14. The information is recommended for inclusion in Attachment 2-1.

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